**Synthesis of TP-2758**

**Significance:** TP-2758 is in development for the treatment of complicated urinary tract infections caused by Gram-negative pathogens. The closing stage of the synthesis depicted features the installation of the chiral pyrrolidine moiety in fragment **G** using Ellman's chiral sulfinamine auxiliary **B** (99% ee). The conjunction of complex fragments **G** and **H** using chemistry developed by Myers and co-workers ([J. Am. Chem. Soc. 2008, 130, 17913](https://pubs.acs.org/doi/10.1021/ja8059095)) delivered the advanced intermediate **I** in 89% yield.

**Comment:** Enantioselective deprotonation of N-Boc pyrrolidine using s-BuLi and (-)-sparteine afforded the lithium reagent (S)-**K** that participated in a palladium-catalyzed Negishi coupling with bromoarene **J** to give enantioenriched pyrrolidine (R)-**L** in 63% yield (>90% ee). By using diamine (S,S)-**M** as a (+)-sparteine surrogate, the corresponding Negishi reaction delivered (S)-**L** in 50% yield (93% ee). Neither of these alternatives was robust, and the yields could not be improved.

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